

PERSONAL DETAILS

Name: **Rajit Sanghvi**
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PROFESSIONAL EXPERIENCE

10/2020 - current	Universität Koblenz-Landau, Koblenz, Germany. Research Associate, Institute of Mathematics and Computer Science <ul style="list-style-type: none"> Research in Mathematical Optimization, and Deep Neural Networks (DNN). Parallel training of Deep Neural Networks. Computational Programming using powerful linear algebra package EIGEN in C++ and Data Analysis/Visualization using Python packages like NumPy, Pandas, Matplotlib, and Seaborn.
03/2021 - current	Neptune.ai Technical Writer, Freelance <ul style="list-style-type: none"> I write about Deep learning using the deep learning framework like Tensorflow and PyTorch, and the ML experiment tracking tool Neptune. https://neptune.ai/blog/early-stopping-with-neptune
05/2020 - 09/2020	Simerics GmbH, Rottenburg am Neckar, Germany. Internship, Research and Development <ul style="list-style-type: none"> Development of Python library for mixed timescale coupling using Python packages like NumPy, Pandas, Matplotlib, and Seaborn. Implementation of numerical Fluid-Structure Interaction (FSI) coupling algorithms for FSI coupling adapters in Python.
05/2019 - 11/2019	IAV GmbH, Chemnitz, Germany. Master's thesis, Department of Internal Combustion Engine Simulation. <ul style="list-style-type: none"> Investigation of the Turbine Downstream to increase the turbine pressure ratio and thus the turbine performance. Perform meshing and 3D- CFD simulations of the models using CFD-tool StarCCM+.
10/2018 - 03/2019	Bosch Rexroth AG, Lohr am main, Germany. Internship, Industrial Hydraulics Department. <ul style="list-style-type: none"> Shape optimization of hydraulic valves and pumps using the adjoint method with CFD simulation to determine the optimal design with the objective function of minimizing pressure drop.

LANGUAGES

German (B1) ● ● ● ○ ○
 English ● ● ● ● ●

SKILLS

Computer Vision ● ● ● ○ ○
 PyTorch ● ● ● ● ○
 TensorFlow ● ● ● ○ ○
 Keras ● ● ● ○ ○
 LaTeX ● ● ● ● ○




PROGRAMMING- SKILLS

Python ● ● ● ● ○
 C/C++ ● ● ● ● ○
 Matlab ● ● ● ○ ○

OPERATING SYSTEMS

Windows ● ● ● ● ●
 Linux ● ● ● ● ●

HOBBIES

 Cooking
 Reading
 Table-Tennis

09/2016 - 09/2017	Bosch Rexroth (India) Pvt Ltd. Design Engineer, Hydraulic Control Department. <ul style="list-style-type: none"> Design and testing of industrial hydraulic valves. Creation of 2D/3D technical drawings with CAD programs.
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EDUCATION

10/2017 - 09/2020	Masters of Science in Computational Science and Engineering Ruhr-Universität Bochum, Germany Abschlussnote: 1.6
06/2012 - 03/2016	Bachelor of Technology in Mechanical Engineering Indus University, India Abschlussnote: 9.22/10

ONLINE COURSE

May 2021	The Complete SQL BootCamp 2021 Udemy <ul style="list-style-type: none"> Read and write complex queries to a database using PostgreSQL and PgAdmin. Retrieve and Analyzing data from the database. Python to further advanced SQL skills.
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VOLUNTEERING EXPERIENCE

02/2018 - 03/2019	Vice President, Student Council Ruhr-Universität Bochum, Germany <ul style="list-style-type: none"> Representing the student body at various events and other meetings. Planning and implementing various social events.
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AWARDS

2017	Gold Medal Indus Universität, India Awarded for academic excellence in the bachelor's degree program.
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REFERENCES

SIMERICS GmbH
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 72108 Rottenburg (Germany)
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